

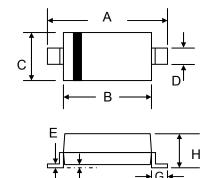


SURFACE MOUNT SCHOTTKY BARRIER DIODE



Features

- Low Turn-On Voltage
- Fast Switching Speed
- PN Junction Guard Ring for Transient and ESD Protection
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0



SOD-323					
Dim	Min	Max			
Α	2.30	2.75			
В	1.60	1.80			
С	1.20	1.40			
D	0.25	0.40			
Е	0.05	0.15			
G	0.20	0.40			
Н	_	1.10			
J	-	0.10			
All Dimensions in mm					

Mechanical Data

Case: SOD-323, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.004 grams (approx.)

Marking: Device Code, See Page 3

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

Maximum Ratings @TA=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	40	V
Forward Continuous Current	lF	200	mA
Non-Repetitive Peak Forward Surge Current @ t < 10ms	IFSM	600	mA
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150	°C

Thermal Characteristics

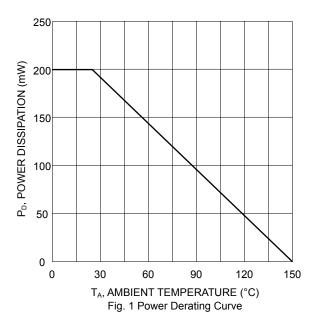
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	Po	200	mW
Thermal Resistance, Junction to Ambient (Note 1)	R JA	625	°C/W

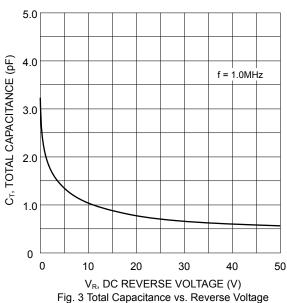
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

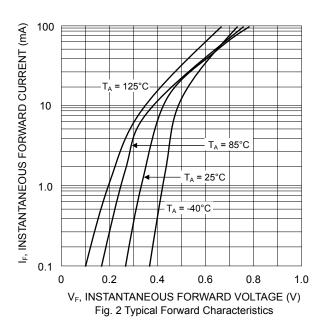


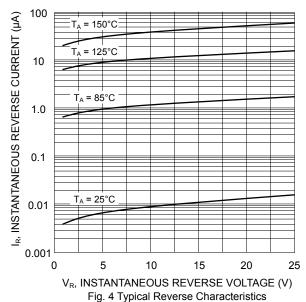
Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	@ IR = 10µA	V(BR)	40			V
Forward Voltage Drop	@ IF = 1.0mA @ IF = 40mA	VF			0.38 1.00	V
Reverse Leakage Current	@ VR = 30V	lr		20	200	nA
Diode Capacitance (VR = 0V, f = 1.0MHz)	C _D			5.0	pF	
Reverse Recovery Time (IF = IR = 10mA, IF	trr			5.0	nS	





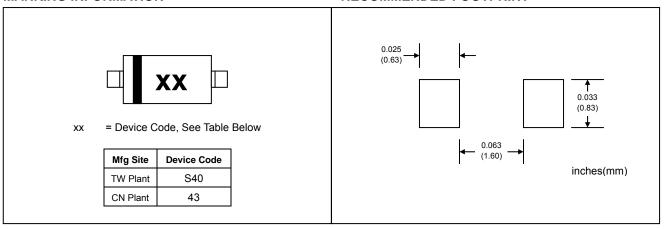






MARKING INFORMATION

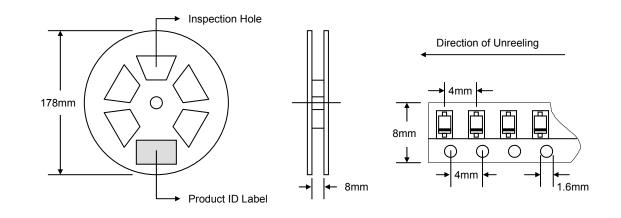
RECOMMENDED FOOTPRINT



PACKAGING INFORMATION

TAPE & REEL





Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	7.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment. 2. Components are packed in accordance with EIA standard 481-1 and 481-2.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity	
BAS40WS-T1	SOD-323	3000/Tape & Reel	

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, BAS40WS-T1-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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